

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122618\
 Data File : VF061192.D
 Acq On : 26 Dec 2018 17:04
 Operator : VA/AP
 Sample : J6378-18MS
 Misc : 5.07g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P001-SS001-0612-01MS

Manual Integrations
 APPROVED

apatel
 12/27/2018 4:19:06 PM

Quant Time: Dec 27 07:48:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	143747	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	266085	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.76	117	208158	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.54	152	95391	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	104818	56.69	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	113.38%	
35) Dibromofluoromethane	4.09	113	114083	53.52	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	107.04%	
50) Toluene-d8	7.54	98	293088	48.52	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	97.04%	
62) 4-Bromofluorobenzene	11.40	95	122279	43.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.82%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.96	85	135487	42.401	ug/l	93
3) Chloromethane	1.11	50	85822	46.888	ug/l	97
4) Vinyl Chloride	1.13	62	76840	45.254	ug/l #	87
5) Bromomethane	1.31	94	47996	40.753	ug/l	88
6) Chloroethane	1.38	64	35708	45.640	ug/l	94
7) Trichlorofluoromethane	1.47	101	159069m	49.064	ug/l	
8) Diethyl Ether	1.62	74	22965	51.728	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	1.83	101	73042	43.452	ug/l	95
10) Methyl Iodide	1.90	142	102919m	38.841	ug/l	
11) Tert butyl alcohol	2.56	59	22696	304.203	ug/l	95
12) 1,1-Dichloroethene	1.79	96	60095	47.426	ug/l	97
13) Acrolein	1.99	56	5545	102.854	ug/l	81
14) Allyl chloride	2.08	41	74338	56.374	ug/l	96
15) Acrylonitrile	2.93	53	39481	228.845	ug/l	93
16) Acetone	2.23	43	98174	265.621	ug/l	96
17) Carbon Disulfide	1.82	76	164818m	43.041	ug/l	
18) Methyl Acetate	2.34	43	85305	111.557	ug/l	94
19) Methyl tert-butyl Ether	2.42	73	143711	51.096	ug/l	99
20) Methylene Chloride	2.26	84	63570m	54.201	ug/l	
21) trans-1,2-Dichloroethene	2.30	96	47216	34.839	ug/l	95
22) Diisopropyl ether	2.78	45	225443	51.325	ug/l	99
23) Vinyl Acetate	3.18	43	64977	32.066	ug/l	97
24) 1,1-Dichloroethane	2.85	63	126225	48.501	ug/l	98
25) 2-Butanone	4.31	43	153637	256.308	ug/l	100
26) 2,2-Dichloropropane	3.58	77	74815	50.093	ug/l	99
27) cis-1,2-Dichloroethene	3.45	96	100433	48.406	ug/l	97
28) Bromochloromethane	3.70	49	65246	49.410	ug/l	93
29) Tetrahydrofuran	4.06	42	63179	258.960	ug/l	98
30) Chloroform	3.84	83	193272	49.528	ug/l	99
31) Cyclohexane	3.67	56	113210m	41.921	ug/l	
32) 1,1,1-Trichloroethane	4.07	97	111124	47.510	ug/l	100
36) 1,1-Dichloropropene	4.26	75	134133	41.762	ug/l	95
37) Ethyl Acetate	4.09	43	39564	29.512	ug/l #	54
38) Carbon Tetrachloride	3.97	117	103848	42.457	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.44	83	92890	32.237	ug/l	99
40) Benzene	4.61	78	304982	44.155	ug/l	93
41) Methacrylonitrile	4.73	41	29347	43.265	ug/l	93
42) 1,2-Dichloroethane	4.92	62	116094	44.245	ug/l	98
43) Isopropyl Acetate	6.94	43	39053	25.182	ug/l	98
44) Trichloroethene	5.48	130	92178	42.330	ug/l	95
45) 1,2-Dichloropropane	6.21	63	80048	42.597	ug/l	98
46) Dibromomethane	6.07	93	54195	44.465	ug/l	95
47) Bromodichloromethane	6.37	83	140768	44.451	ug/l	99
48) Methyl methacrylate	6.70	41	51540	47.606	ug/l	94
49) 1,4-Dioxane	6.69	88	7620	970.001	ug/l	93
51) 4-Methyl-2-Pentanone	8.25	43	260097	244.545	ug/l	98
52) Toluene	7.61	92	180160	39.404	ug/l	94
53) t-1,3-Dichloropropene	8.27	75	110243	43.153	ug/l	100
54) cis-1,3-Dichloropropene	7.28	75	141609	44.166	ug/l	96
55) 1,1,2-Trichloroethane	8.47	97	61275	44.705	ug/l	97
56) Ethyl methacrylate	8.60	69	45939	30.974	ug/l	98
57) 1,3-Dichloropropane	8.84	76	108404	43.729	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.28	63	57649	202.384	ug/l	98
59) 2-Hexanone	9.48	43	169922	220.917	ug/l	98
60) Dibromochloromethane	8.70	129	87797	44.685	ug/l	99
61) 1,2-Dibromoethane	8.97	107	65817	44.962	ug/l	99
64) Tetrachloroethene	8.14	164	74415	46.473	ug/l	95
65) Chlorobenzene	9.79	112	192223	44.700	ug/l	99
66) 1,1,1,2-Tetrachloroethane	9.91	131	92009	52.357	ug/l	95
67) Ethyl Benzene	9.88	91	379525	48.444	ug/l	99
68) m/p-Xylenes	10.11	106	245848	89.170	ug/l	95
69) o-Xylene	10.70	106	145265	47.507	ug/l	92
70) Styrene	10.77	104	193740	52.212	ug/l	97
71) Bromoform	10.76	173	41131	50.590	ug/l	95
73) Isopropylbenzene	11.12	105	389121	47.336	ug/l	98
74) N-amyl acetate	11.36	43	30292	16.598	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.69	83	78003	57.174	ug/l	98
76) 1,2,3-Trichloropropane	11.79	75	57231	56.368	ug/l	96
77) Bromobenzene	11.48	156	83251	47.046	ug/l	96
78) n-propylbenzene	11.58	91	419134	43.036	ug/l	100
79) 2-Chlorotoluene	11.71	91	253591	44.970	ug/l	99
80) 1,3,5-Trimethylbenzene	11.82	105	303347	44.815	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.86	75	25643m	58.775	ug/l	
82) 4-Chlorotoluene	11.89	91	256771	44.016	ug/l	98
83) tert-Butylbenzene	12.12	119	298030	42.788	ug/l	99
84) 1,2,4-Trimethylbenzene	12.19	105	296136	43.872	ug/l	98
85) sec-Butylbenzene	12.29	105	362170	39.844	ug/l	98
86) p-Isopropyltoluene	12.45	119	310705	41.180	ug/l	99
87) 1,3-Dichlorobenzene	12.47	146	145542	50.446	ug/l	99
88) 1,4-Dichlorobenzene	12.56	146	142552	43.871	ug/l	98
89) n-Butylbenzene	12.83	91	270760	32.919	ug/l	94
90) Hexachloroethane	12.90	117	72687	38.993	ug/l	95
91) 1,2-Dichlorobenzene	12.93	146	140375	44.373	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	13.63	75	13627	54.431	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.19	180	72068	32.122	ug/l	98
94) Hexachlorobutadiene	14.18	225	28968	20.272	ug/l	95
95) Naphthalene	14.44	128	168897	41.227	ug/l	98
96) 1,2,3-Trichlorobenzene	14.59	180	61072	29.446	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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